Hall Probes

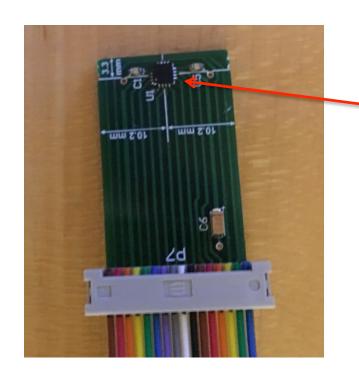
John Haggerty *Brookhaven National Laboratory*



Hall probes

- We looked into Hall probes that can do "mapping" and monitoring in the detector without a long period of mapping with the magnet on and the TPC not installed
- Bought the Magvector MV2 3D Hall propbe becaue it looked easy to use for the full field test
- Other probes possible (SENIS, for example)

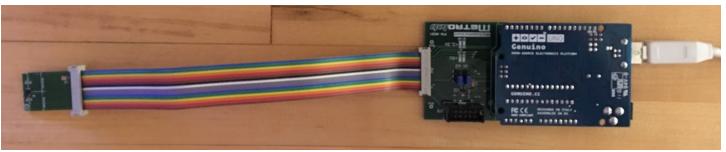




MV2 trials

MV2 Hall Probe

Probe with SPI readout (Arduino)





Calibration

(bz-32768)/214.0:Entry\$

- Calibrated with refrigerator magnet so far (turn little magnet over and measure on 100 mT scale)
- Achim and I are going to talk to David Harder at NSLS II this afternoon about more sophisticated calibration
- 1%? 0.1%?

